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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,100	08/26/2003	Qi-Zhong Hong	TI-36167	6431
23494	7590 03/03/2005		EXAMINER	
	TRUMENTS INCORPO	VU, DA	VU, DAVID	
P O BOX 655474, M/S 3999			ADTIBUT	DA DED MINADED
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2818	
			DATE MAILED: 03/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/650,100	HONG, QI-ZHONG				
Office Action Summary	Examiner	Art Unit				
	DAVID VU	2818				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is tess than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	eid(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 A	<u>ıgust 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims		•				
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 13 September 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)⊡ objecd drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-12 are rejected under 35 U. S. C. 102(b) as being anticipated by Ma et al. (US Pat. 6,329,234, herein after Ma).

Ma figs. 1-11 disclose a method for forming an integrated circuit capacitor with copper metal, comprising: providing a semiconductor substrate 10; forming a first dielectric layer 12 over semiconductor 10 (col. 6, lines 30-32 and fig. 1); forming a copper structure 16 in dielectric layer 12 (col. 6, lines 39-47); forming a second dielectric layer 60/62 (silicon oxide/silicon nitride) over copper structure 16 (col. 7, lines 24-28 and fig. 6); forming a first metal containing layer 84 (tantalum nitride) (col. 7, lines 63-65) over second dielectric layer 60/62 forming a second metal containing layer 90 (copper) (col. 8, lines 10-11 and fig. 9) over first metal containing layer 84; and forming a planar surface by removing portions of second dielectric layer 60/62, first metal containing layer 84, and second metal containing layer 90 using chemical mechanical polishing process (col. 8, lines 53-62 and figs. 10-11)

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Conclusion

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2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Vu whose telephone number is (571) 272-1798. The

examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm. If attempt to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can

be reached on (571) 272-1787. The fax phone number for the organization where this application

or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR, Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Vu

February 25, 2005